

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claim 1 (currently amended): A method for ~~preparing a~~ recovering a budded baculovirus expressing an intracellular organelle membrane-bound protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein ~~by~~ comprising culturing a host infected with at least one recombinant baculovirus which contains a gene encoding said protein, expressing said protein in a budded baculovirus released from said host, and separating the budded baculovirus.

Claim 2 (currently amended): A method for preparing a an intracellular organelle membrane-bound protein which comprises:

culturing a host infected with a recombinant baculovirus which contains a gene encoding a protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein;

recovering a budded baculovirus released from said host; and

recovering the protein expressed from said budded baculovirus.

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Claim 3 (original): The method of claim 1 wherein the protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein is a membrane-bound protein of a cell organelle.

Claim 4 (original): The method of claim 2 wherein the protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein is a membrane-bound protein of a cell organelle.

Claim 5 (original): The method of claim 1 wherein the protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein is SREBP2, HMG-CoA reductase, S1P, or SREBP cleavage activating protein.

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Claim 6 (original): The method of claim 2 wherein the protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein is SREBP2, HMG-CoA reductase, SIP, or SREBP cleavage activating protein.

Claim 7 (original): The method of claim 1 wherein the host is an insect cell or an insect larva.

Claim 8 (original): The method of claim 2 wherein the host is an insect cell or an insect larva.

Claim 9 (withdrawn-currently amended) A budded baculovirus which is released from a host infected with at least one baculovirus which contains a gene encoding a an intracellular organelle membrane-bound protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein.

Claim 10 (withdrawn): A method for screening a chemical substance which comprises measuring interaction between said protein and other chemical substances using the budded baculovirus of claim 9.

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Claim 11 (withdrawn): The method of claim 10 wherein a drug which inhibits or activates a protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein, is screened.

Claim 12 (withdrawn): A method for screening a chemical substance which activates or inhibits the function of two or more proteins selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein, by co-infecting two or more different recombinant baculoviruses, each of which contains a gene encoding a different one of said two or more proteins; and co-expressing the function of said two or more proteins.

Claim 13 (withdrawn): A method for producing an antibody against a protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein, wherein the budded baculovirus of claim 9 is used as an immunogen.

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Claim 14 (withdrawn): An antibody which is produced by the method of claim 13.

Claim 15 (new): The method of claim 1, wherein the protein is an Endoplasmic Reticulum-associated protein.

Claim 16 (new): The method of claim 1, wherein the protein is an Golgi Apparatus-associated protein.

Claim 17 (new): The method of claim 2, wherein the protein is an Endoplasmic Reticulum-associated protein.

Claim 18 (new): The method of claim 2, wherein the protein is an Golgi Apparatus-associated protein.

Claim 19 (new): The method of claim 1, wherein the protein is SREBP2, HMG-CoA reductase, S1P, or SREBP cleavage activating protein.

Claim 20 (new): The method of claim 2, wherein the protein is SREBP2, HMG-CoA reductase, S1P, or SREBP cleavage activating protein.

Claim 21 (new): A method for recovering a budded baculovirus expressing a non-receptor protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein comprising culturing a host infected with at least one recombinant baculovirus which contains a gene encoding said protein, expressing said protein in a budded baculovirus released from said host, and separating the budded baculovirus.

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Claim 22 (new): The method of claim 21, wherein the protein is an Endoplasmic Reticulum-associated protein.

Claim 23 (new): The method of claim 21, wherein the protein is an Golgi Apparatus-associated protein.

Claim 24 (new): The method of claim 21, wherein the protein is SREBP2, HMG-CoA reductase, S1P, or SREBP cleavage activating protein.

Claim 25 (new): A method for preparing a non-receptor protein which comprises:
culturing a host infected with a recombinant baculovirus which contains a gene encoding a protein selected from a membrane-bound enzyme, a substrate of the membrane-bound enzyme, a membrane-bound enzyme activator, a membrane-bound transport protein, a channel protein, a membrane structural protein, a protein involved in adhesion, a protein involved in antigen presentation, or a protein involved in formation of high dimensional structure of a protein;
recovering a budded baculovirus released from said host; and
recovering the protein expressed from said budded baculovirus.

Claim 26 (new): The method of claim 25, wherein the protein is an Endoplasmic Reticulum-associated protein.

Claim 27(new): The method of claim 25, wherein the protein is an Golgi Apparatus-associated protein.

Claim 28 (new): The method of claim 25, wherein the protein is SREBP2, HMG-CoA reductase, S1P, or SREBP cleavage activating protein.